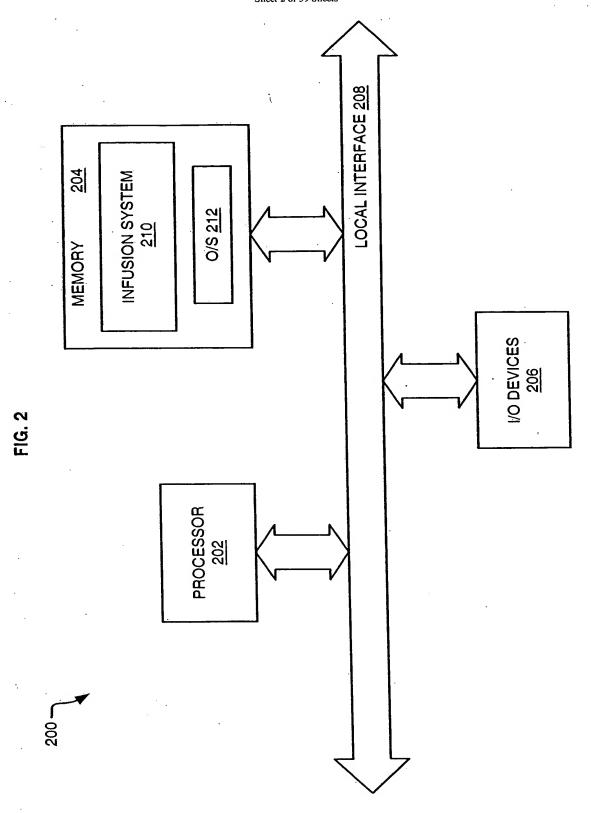
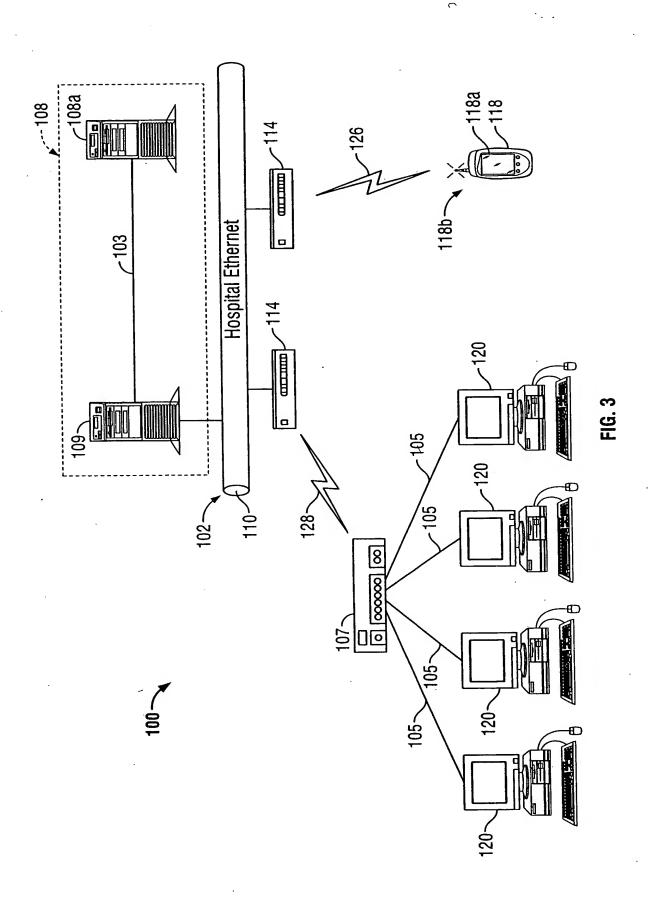


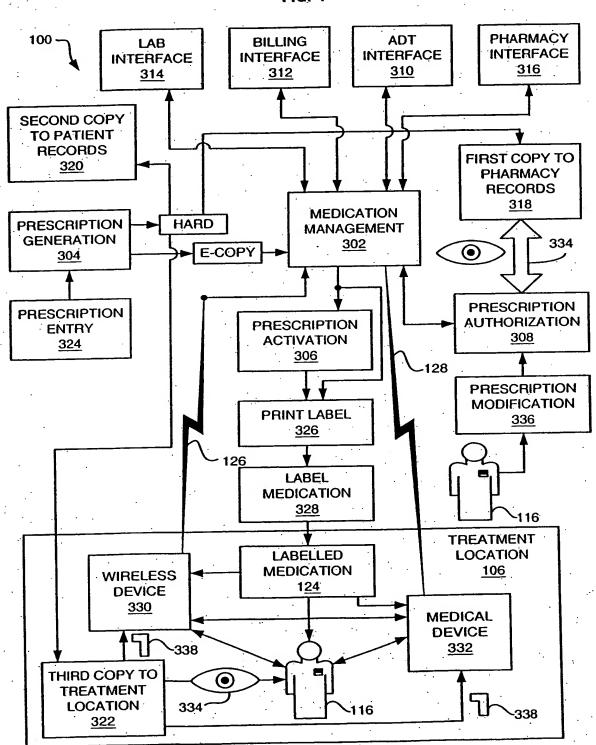
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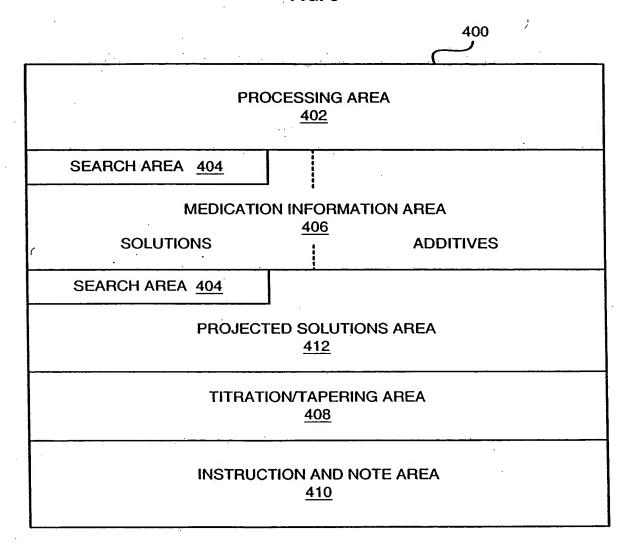
Inventors: Dan M. Mihai et al.
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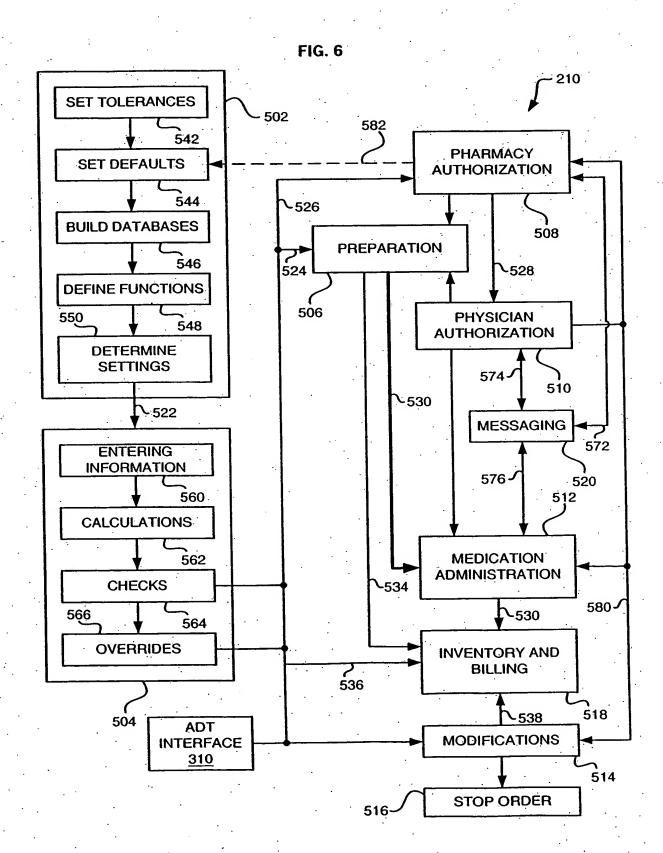
FIG. 4



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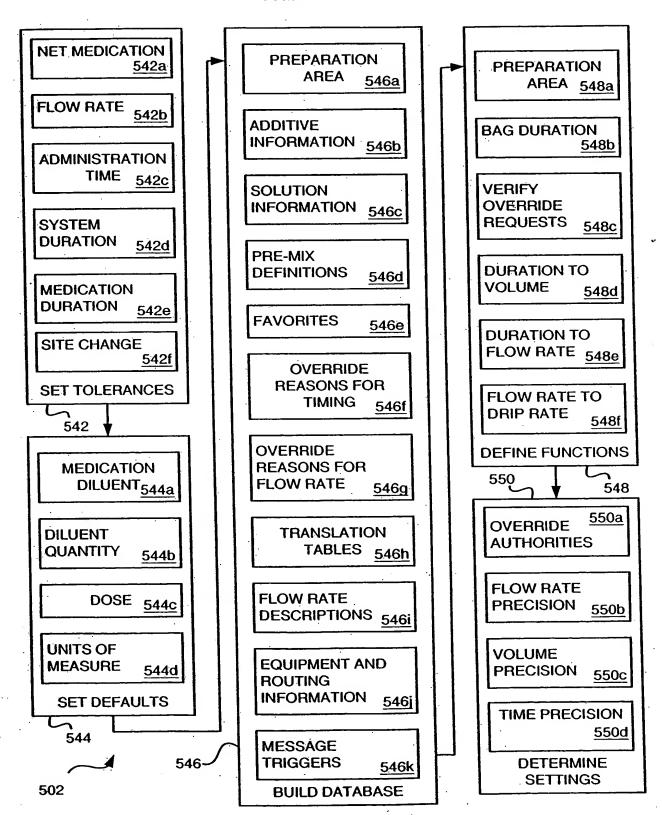
FIG. 5





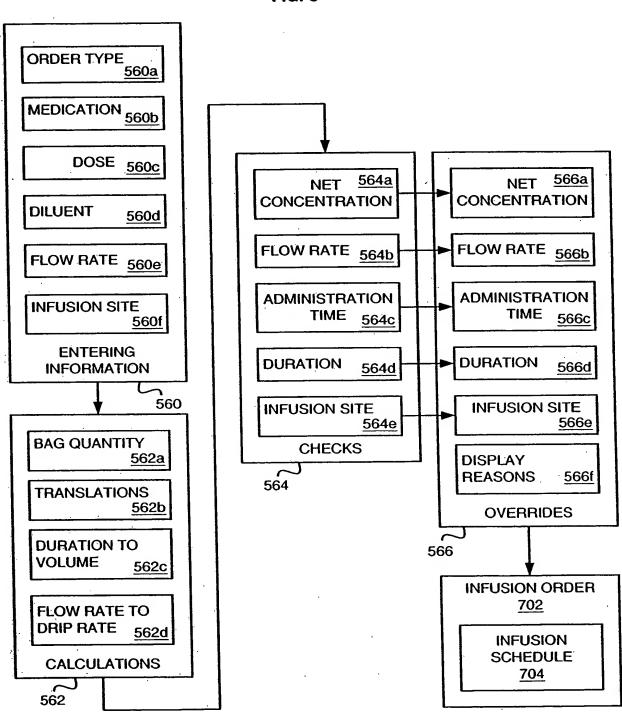
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FIG. 7



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FIG. 8



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FIG. 9

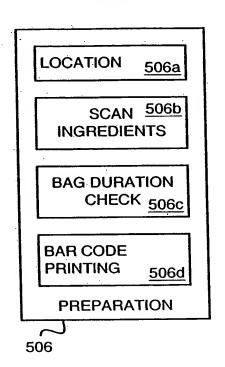
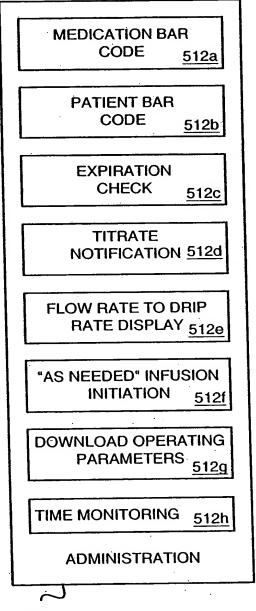
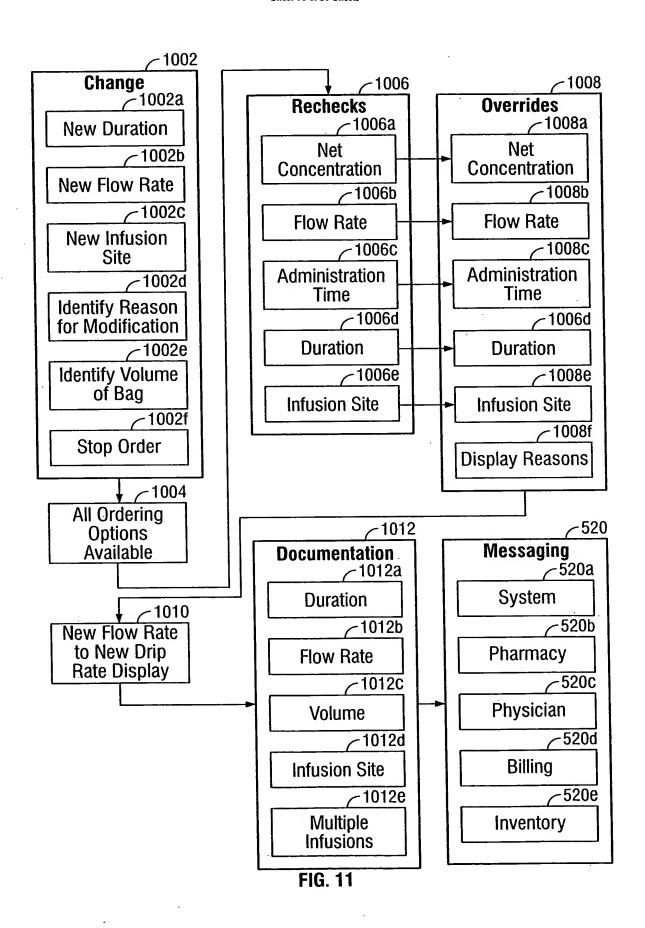


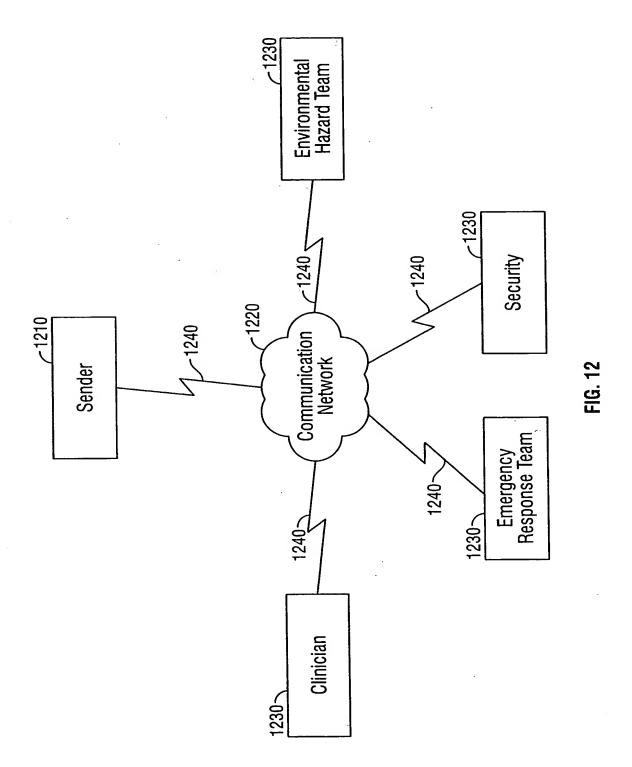
FIG. 10

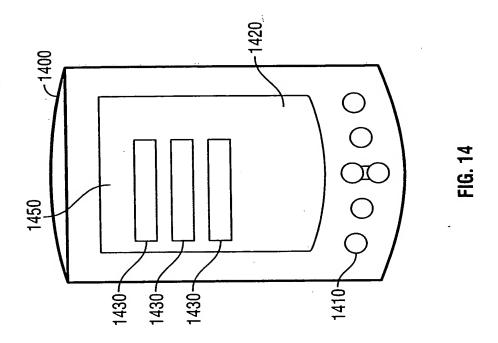


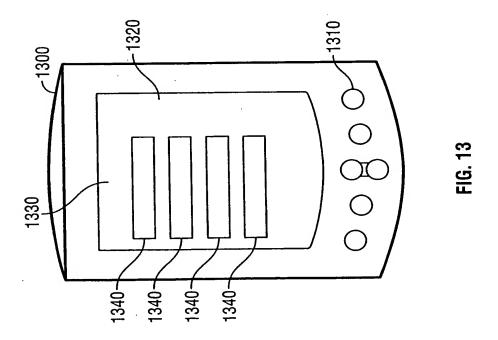
512

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FIG. 15 1500 1505 alarm or alert condition exists at medical device. 1510 1525 send alarm/alert to primary clinician. complete 1515 preconditions check. display alarm/alert 1530 on primary 1520 clinician's display device. is primary clinician's display device active? 1535 start timer. No 1545 1540 does clinician No Yes respond to alarm is alarm/alert condition rectified? at display device within timer 1550 limit? check Yes preconditions. send escalated silence audible 1555 alarm/alert to alarm. secondary clinician. 1565 records in event display alarm/alert log: 1. alam/alert 1560 Yes does primary or on primary and info; 2. clinican secondary clinician secondary responsible for clinician's display respond to alarm? silencing alarm; device. 3. time of alarm condition; 4. time No of silence response. 1570 continue alarm escalation process reset timer and for N levels. updates medical

1580

1585

1590

device alarm list.

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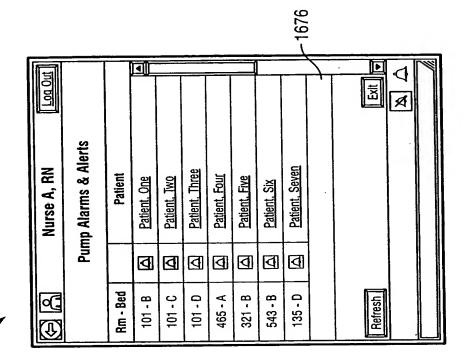


FIG. 16B

FIG. 16A

Exit Log Out 899 1664 1666 4872 Pump Alarms & Alerts Patient, Three-Patient, Two-Patient, One-Nurse A, RN Patient 团 4 回 Rm - Bed 101 - B 101 - C Refresh 흔

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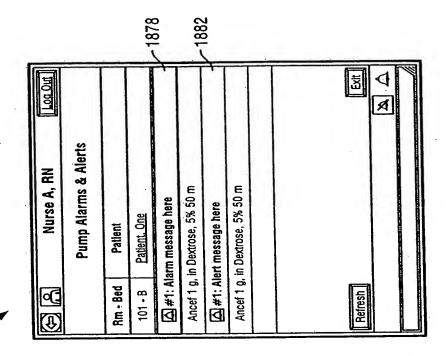


FIG. 18

Rm - Bed Patient
101 - B Patient One
Ancef 1 g, in Dextrose, 5% 50 m

Refresh

Rm - Bed Patient
101 - B Patient One
Ancef 1 g, in Dextrose, 5% 50 m

Refresh

Refresh

Refresh

65

<u>16</u>. 17

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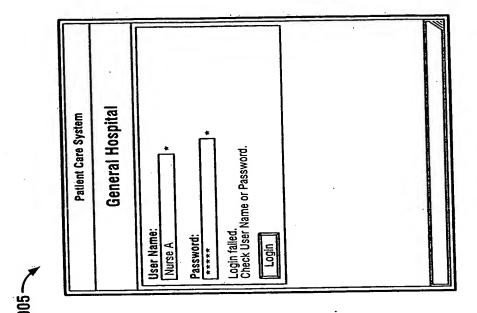


FIG. 20

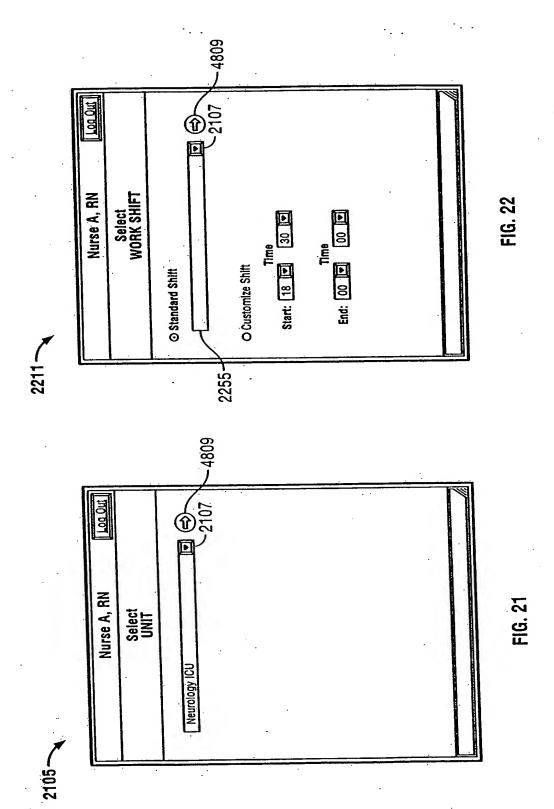
Batlent Care System

General Hospital

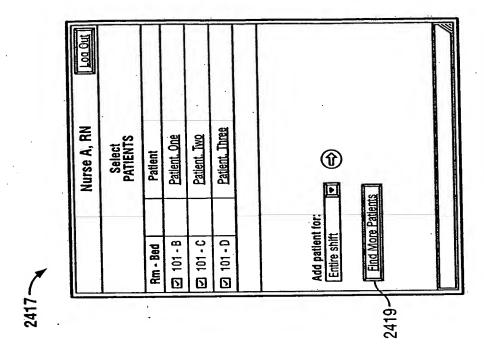
Nurse A
Password:

<u>lg. 19</u>

1903-



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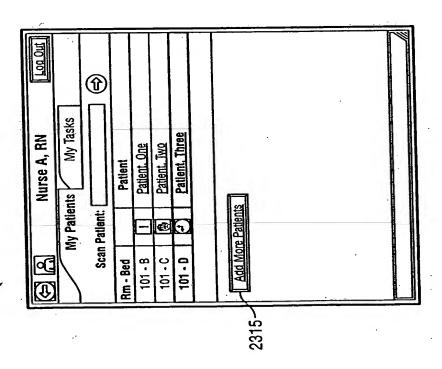


FIG. 23

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Ninety-Three, James RN Ninety Nine, Douglas, Mr. (MDLOC1) MDUnit1: MDRoom1 - MDBed1 Dr.Ninety, Susan 183.00 cm 72.05 in. Med Hx Height Wini-Chart: Allergies Allergies & HVWt Date Observed General Allergy Drug Allergy Acetaminophen Lab Results 8-22 14:16

FIG. 25A

|--|--|--|--|--|--|

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5/16/2003 9:00:00 AM Date Ninety-Three, James RN Normal ¥ Ninety- Nine, Douglas, Mr. (MDLOC1 MDUnit1: MDRoom1 - MDBed1 3.6-5 mmol/L Range Med Hx Result Vini-Chart Allergies Allergies & Ht/Wt Dr.Ninety, Susan POTASSIUM 3.1 Lab Test

FIG. 25C

Ninety-Three, James RN Ninety Nine, Douglas, Mr. (MDLOC1)
MDUnit1: MDRoom1 - MDBed1
Dr.Ninety, Susan
Mini-Chart Allergies (NKA) PRN O Look Back Period: 24 Allergies & Ht/Wt Med Hx Scheduled O idmin Date: 6-3 12:53 attent Refused Lab Results All O

FIG. 25B

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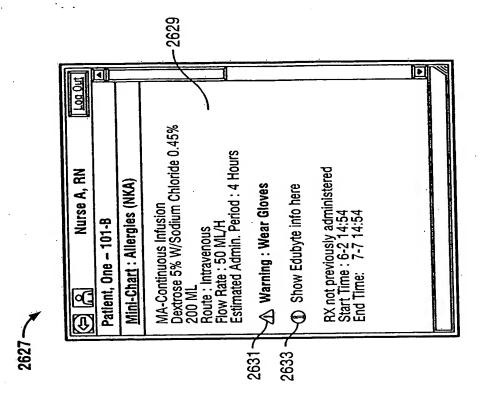


FIG. 26A

2625 12-9 2:00 Last 12:19 -> Continuous Infusion (De Continuous Infusion (De Continuous Infusion (De SI MORPHINE SULFATE Continuous Infusion Nurse A, RN Mini-Chart: Allergies (NKA) SCHED 13 Patient, One - 101-B <- 10:19 **1** 17:30 15:30 里 11:30 13:30 R R @ @ 0 0

FIG. 26

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100 Out Ninety-Three, James RN WORKFLOW INFUSION: STOP Ninety-Six, Samuel, Mr. MDRoom1-MDBed1 Continuous Infusion
Dextrose inj 20%
500 ML
Route: Intravenous Flow Rate: 125
ML/H
Estimated Administration Period: 4
Hours Please select a reason for Stop Infusion Discontinue order in system Stop Time [M/D/Y HH:MM] Mini-Chart; Allergies 06/18/2003

FIG. 27B

Ninety-Three, James RN WORKFLOW INFUSION: STOP Ninety-Six, Samuel, Mr. MDRoom1-MDBed1 Continuous Infusion
Dextrose Inj 20%
500 ML
Route: Intravenous Flow Rate:
125 ML/H
Estimated Administration Period:
4 Hours Mini-Chart: Allergies Order has been DC'd Scan Item:

FIG. 27A

Ninety-Three, James RN WORKFLOW INFUSION: RESUME Ninetyfour-Pointlive, Fred, Mr. MDRoom1 - MDBed1 Mini-Chart: Allergies (Not Specified) Continuous Infusion
Dextrose Inj 20%
500 ML
Route: Intravenous Flow Rate:
125 ML/H
Estimated Administration Perlod:
4 Hours Stopped w/o Order Please select a reason for Resume Infusion Site re-established

FIG. 27D

FIG. 27C

Ninety-Three, James RN Continuous Infusion
Dextrose Inj 20%
500 ML
Route: Intravenous Flow Rate: 125
ML/H
Estimated Administration Period: 4
Hours Mini-Chart: Allergles (Not Specified) Û Ninetyfour-Pointlive, Fred, Mr. MDRoom1 - MDBed1 Stopped w/o Order Scan Item:

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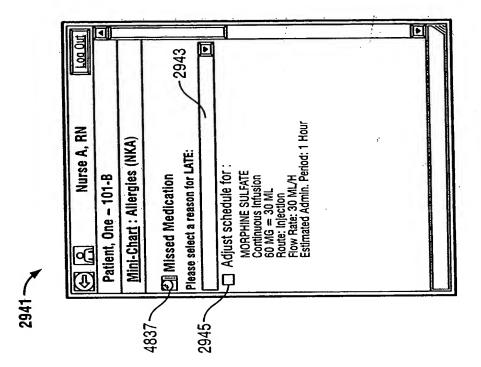
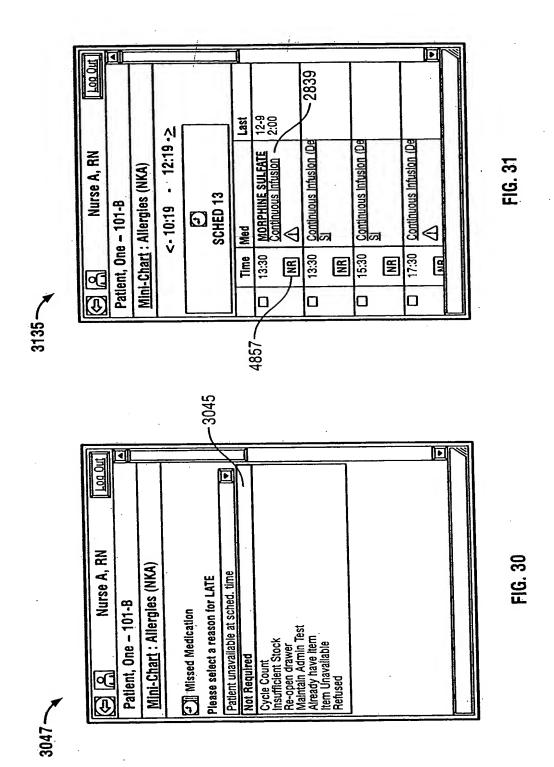


FIG. 29

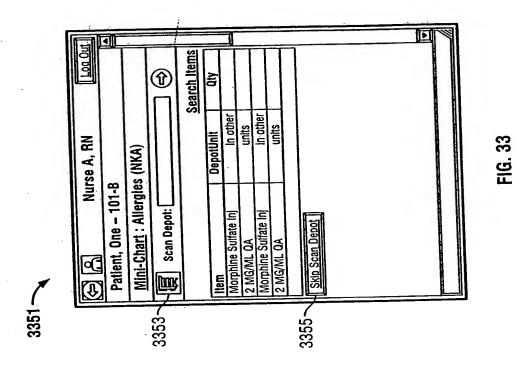
Last Continuous Infusion (De Continuous Infusion (Do Continuous Infusion (De MORPHINE SULFATE Continuous Infusion Nurse A, RN Mini-Chart: Allergies (NKA) SCHED 13 Patient, One - 101-B <- 10:19 13:30 17:30 13:30 15:30 Time **ক্**

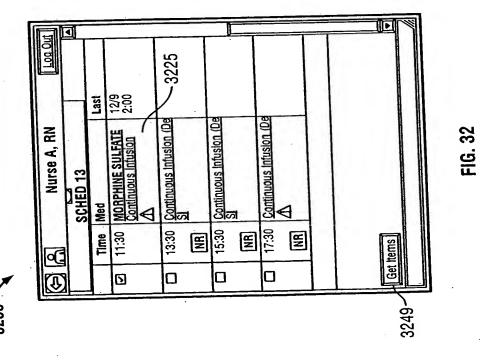
FIG. 2

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Search Items Û In other In other units units Nurse A, RN DepotUnit Mini-Chart: Allergies (NKA) Patient, One - 101-B Scan Depot: Scan code is invalid. Morphine Sulfate In Morphine Sulfate In 2 MG/ML QA MG/ML QA

FIG. 35

Patient, One – 101-8

Mini-Chart: Allergies (NKA)

Mini-Chart: Allergies (NKA)

Scan Item: Continuous Infusion
60 MG = 30 ML
Route: Injection
Flow Rate: 30 ML/H
Estimated Admin. Period: 1 Hour

Quantity: 30 ML(s)

Get: 30 ML

Show Edubyte Info here

FIG. 34

3465

3569~

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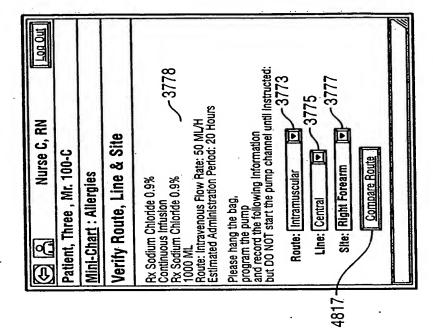


FIG 37

Patient, One – 101-8

Mini-Chart : Allergies (NKA)

Scan Patient:
3661

Not Req Due to Monitoring Result
Patient Unavailable
Refused

Waste/Return

FIG. 36

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FIG. 38A

3885

FIG. 38

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Patient, One
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1
Pharm & Pump Comparison
Ancel 1g, in Dextrose, 5% 50 mL
run at 100 mL/hr
Rate 100 mL/hr 100 mL/hr
Press "Start" Key on pump.

FIG. 39A

Patient, Three, Mr.

1 West: 100-C
MD1, Test
Pharm & Pump Comparison
Continuous infusion Rx Sodium Chloride 0.9% 1000 ML Route: Intravenous Flow Bate: 50 Mt. If Estimated Administration Period; 20 Hours
Period; 20 Hours
Period; 20 Hours

> If this is a PRIMARY
> If this is a PIGGYBACK -
Press the "star" key on the pump channel.

Press the "star" key on the pump channel.

| Press the "star" key on the pump channel.
| Press the "star" key on the pump how, then Click COMPARE pump how, then Click COMPARE pump how, then Click COMPARE pump how, then PIGGYBACK roller clamp-14-OPEN.

| Raggyback infusion, ensure PRIMARY is placed LOWER THAN than PIGGYBACK roller clamp-14-OPEN.

FIG. 39

3986

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Patient, One
Rm - Bed 101-B
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1
Pharm & Pump Comparison
Ancet 1 g, in Dextrose, 5% 50 mL
run at 100 mL/hr
Rate 100 mL/hr ? mL/hr
Cannot Compare.
Press "Rate" key and COMPARE.

FIG. 41

Patient, One
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1

Pharm & Pump Comparison
Ancet 1 g. in Dextrose, 5% 50 mL
run at 100 mL/hr
Rate 100 mL/hr 50 mL/hr
Please Verity with PHYSICIAN Order.
Then to accept the mismatch, press "Start" key on pump and then click "Ok" below.
You can also reprogram the pump and then click "Compare again."

OK Compare again."

<u>:1G. 40</u>

1087 -

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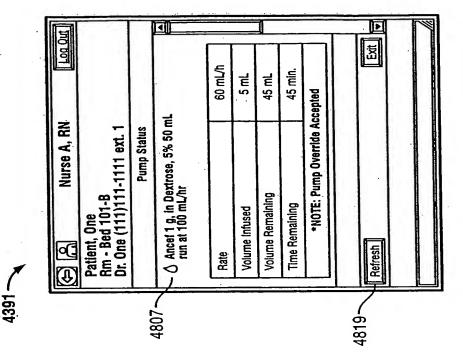


FIG 43

Patient, One
Rm - Bed 101-B
Dr. One (111)111-1111 ext. 1
Pharm & Pump Comparison
Ancef 1 g, in Dextrose, 5% 50 mL
run at 100 mL/hr
Rate 100 mL/hr 7 mL/hr
Cannot Compare. Press "Start" key on pump and click COMPARE, to retry comparison.

FIG. 42

4287~

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Communication Loss Alert for the following Patients If a Yellow light is flashing on the WIRELESS MODULE and it is beeping, the system may be down. Call IT or Blomed. Plug in and turn on all pumps. If that does not resolve the problem, Call IT or Blomed. Nurse A, RN Patient. Three Patient Patient, One Patient, Two Trouble Shooting Tips: X 区 \boxtimes Rm - Bed . OR -101-0 101 - 8 101 - C

10:55 AM 3/13 10:55 AM 3/13 10:54 AM 3/13 999

滋

Refresh

100 001

Nurse A, RN

Ancel 1 g, in Dextrose, 5% 50 mL run at 100 mL/hr

Flow Rate History

Patient, One Rm - Bed 101-B Dr. One (111)111-1111ext. 1

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| Coloning Patients | Low Battery Alert | for the following Patients | The following Patients | 101 - B | Coloning Patient | 101 - B | Coloning Patient | 101 - B | Coloning Patient | C

FIG. 46

FIG. 45B

4501~

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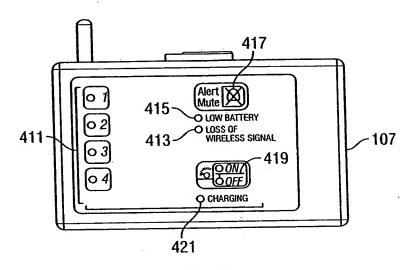


FIG. 47

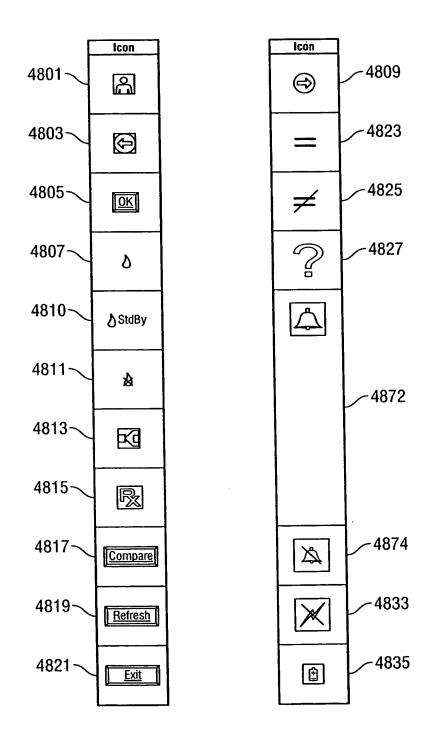
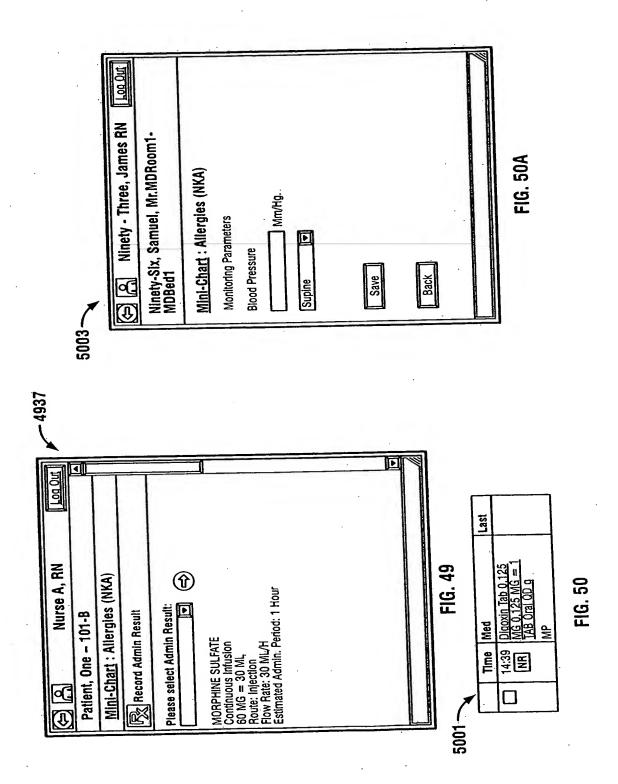


FIG. 48

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5101

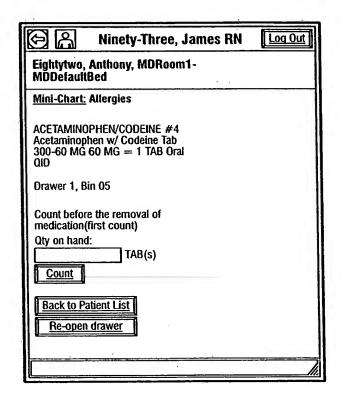
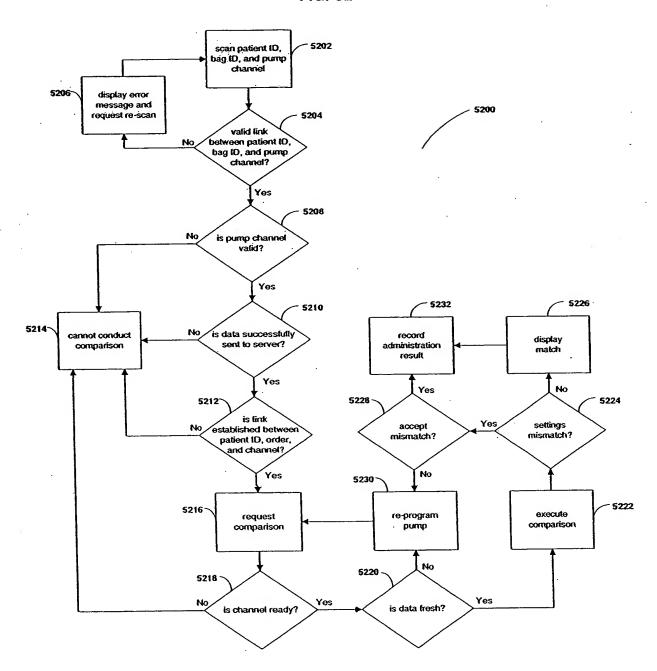


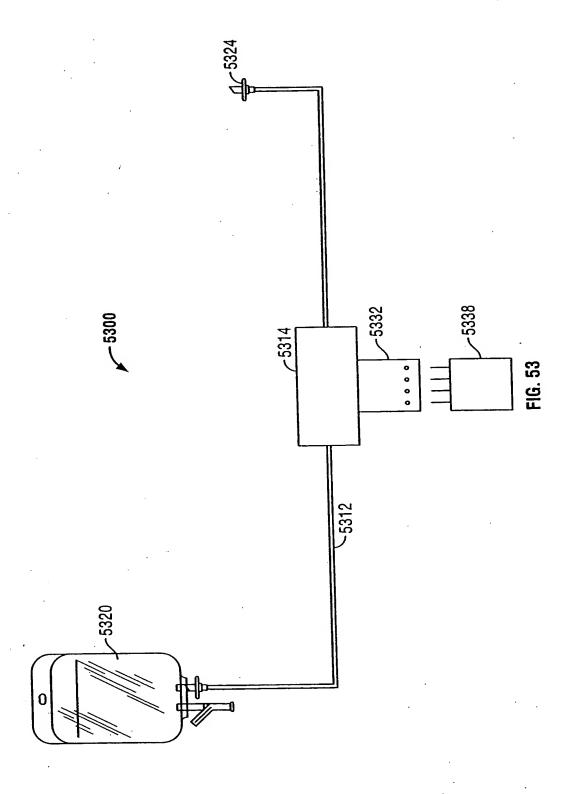
FIG. 51

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FIG. 52



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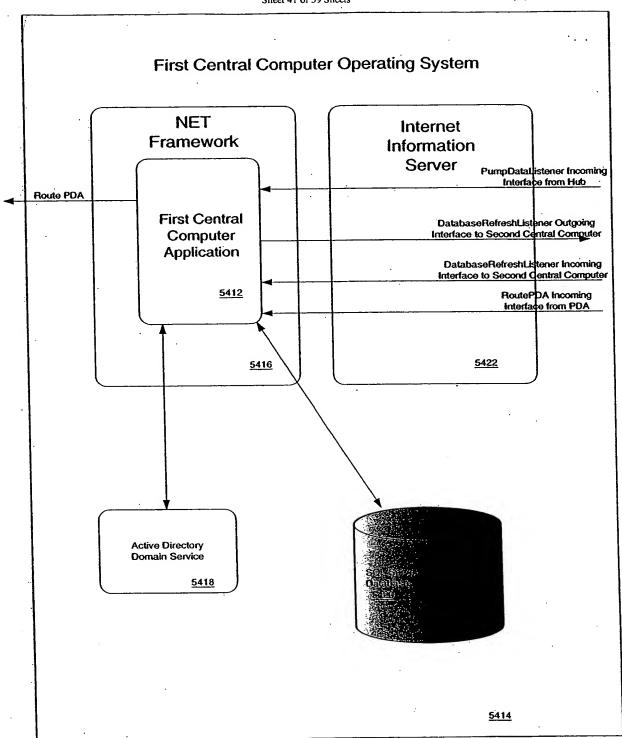
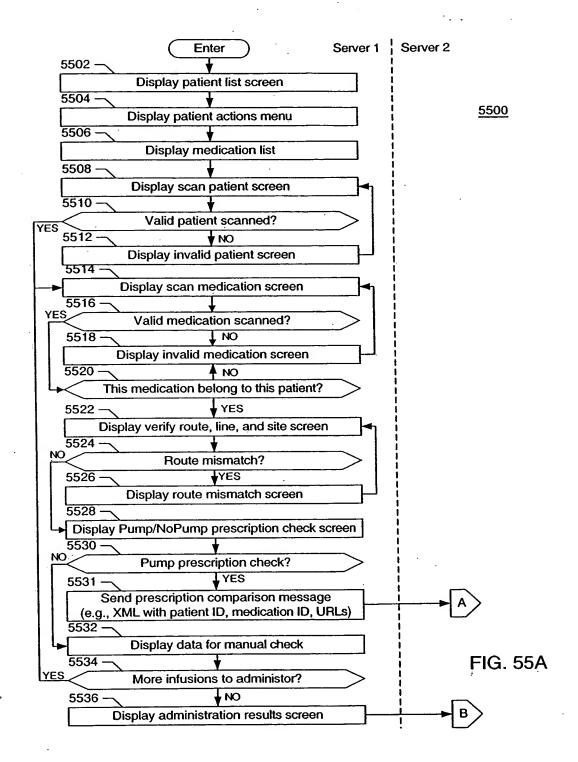


FIG. 54

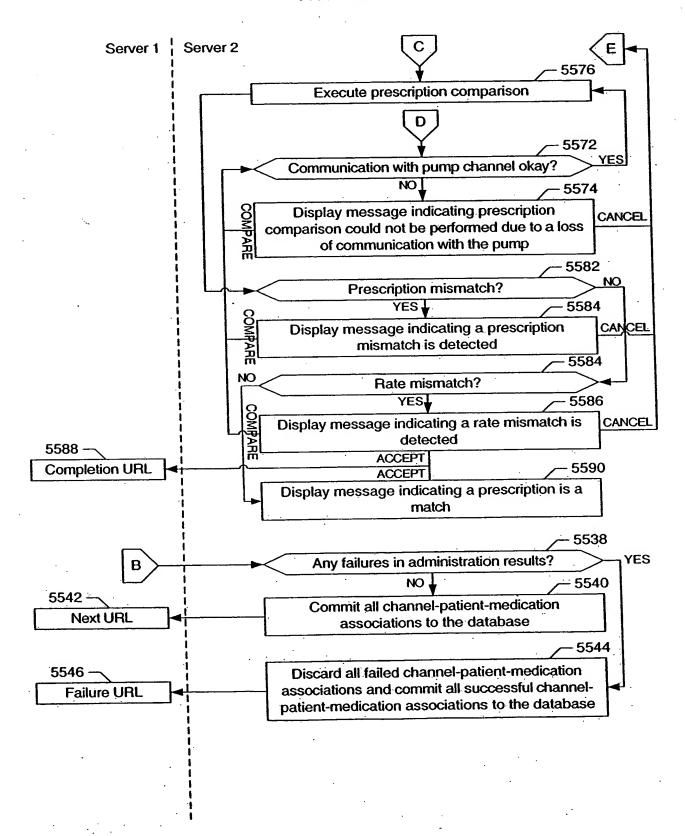


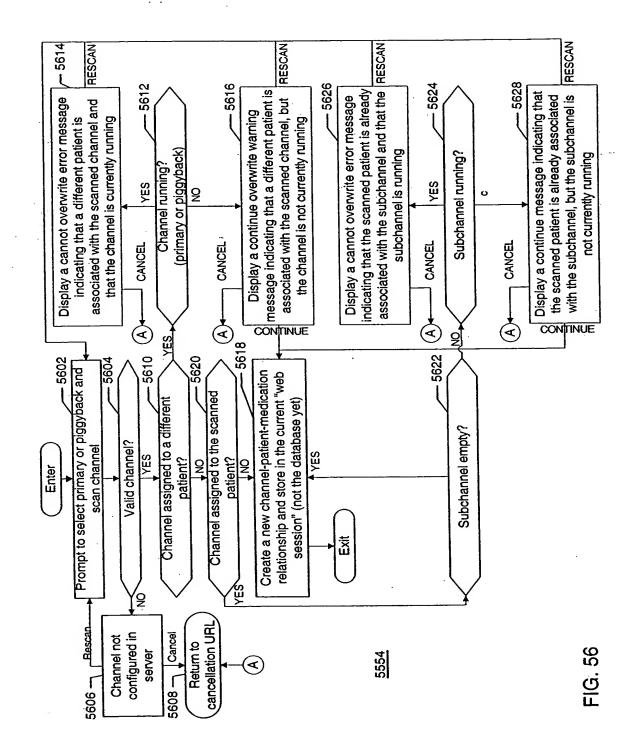
Inventors: Dan M. Mihai et al.
Application No.: 10/748,593
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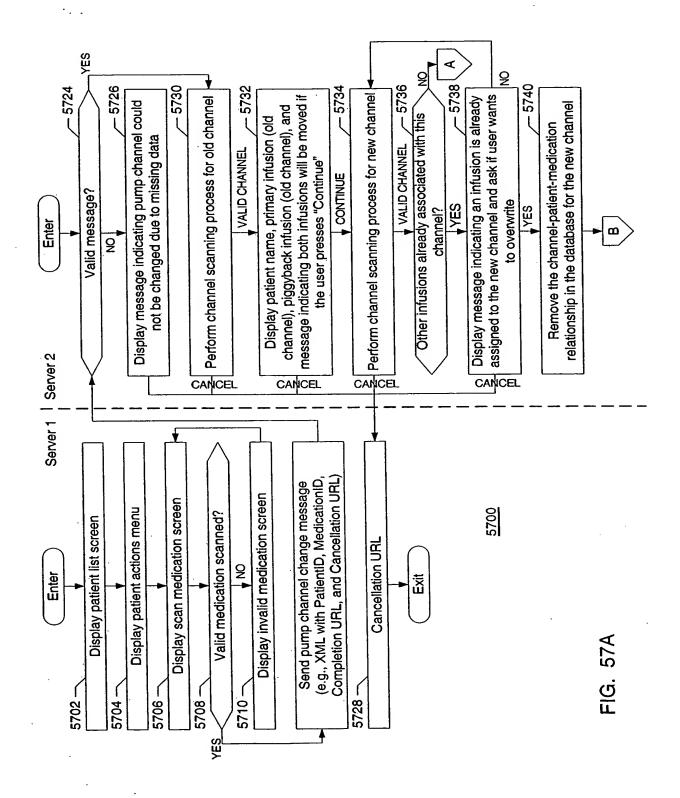
FIG. 55B Server 1 Server 2 **Enter** 5548 Valid message? YES NO. 5550 Display message indicating prescription could not be compared due to missing data 5554 Perform channel scanning process , VALID CHANNEL 5556 Display message to program channel press "Compare" 5560 Communication with pump channel okay? YES NO, 5562 Display message indicating prescription comparison could not be performed due to a loss of communication with the pump 5558 CANCEL 5552 -Discard new channel-patient-medication Cancellation URL associations 5564 Missing any channel data? NO YES 5566 Display message indicating prescription CANCEL comparison could not be performed due to missing 5568 Channel running? NO YES 5570 Display message indicating prescription CANCEL comparison could not be performed and instruct user to press the "Start" key on the pump 5578 Pump focus issue? 5580 YES. Display message indicating prescription CANCEL comparison could not be performed and instruct user to press the "rate" key on the pump

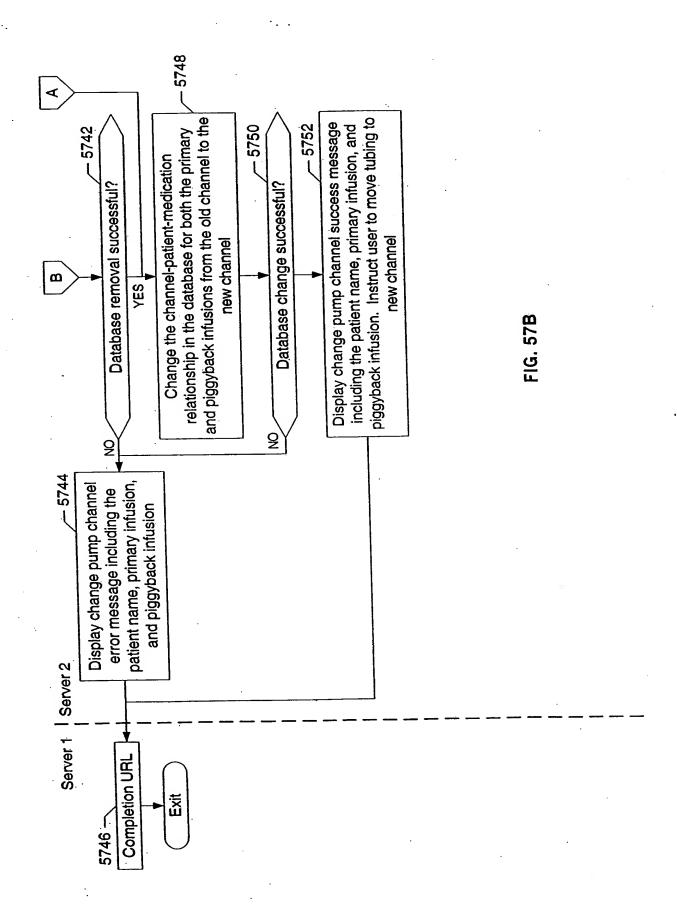
Inventors: Dan M. Mihai et al.
Application No.: 10748,593
Confirmation No.: 8680
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FIG. 55C









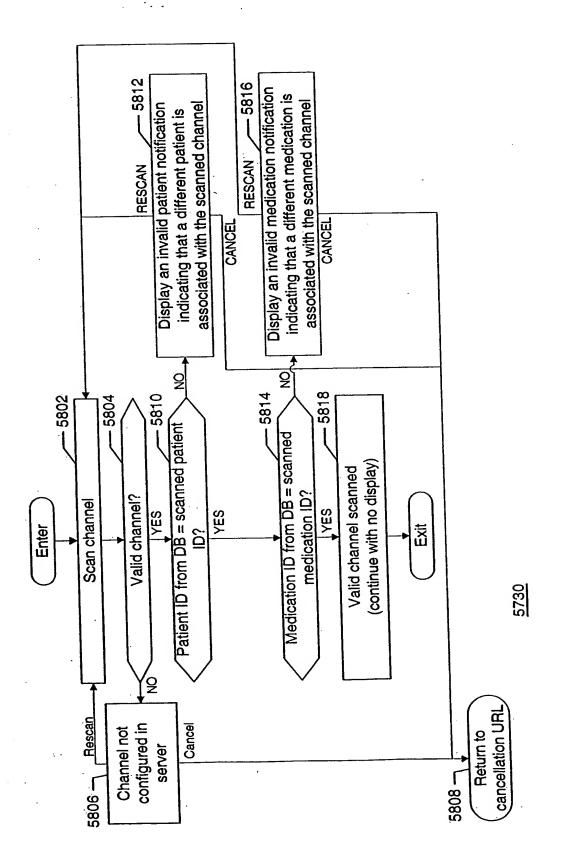
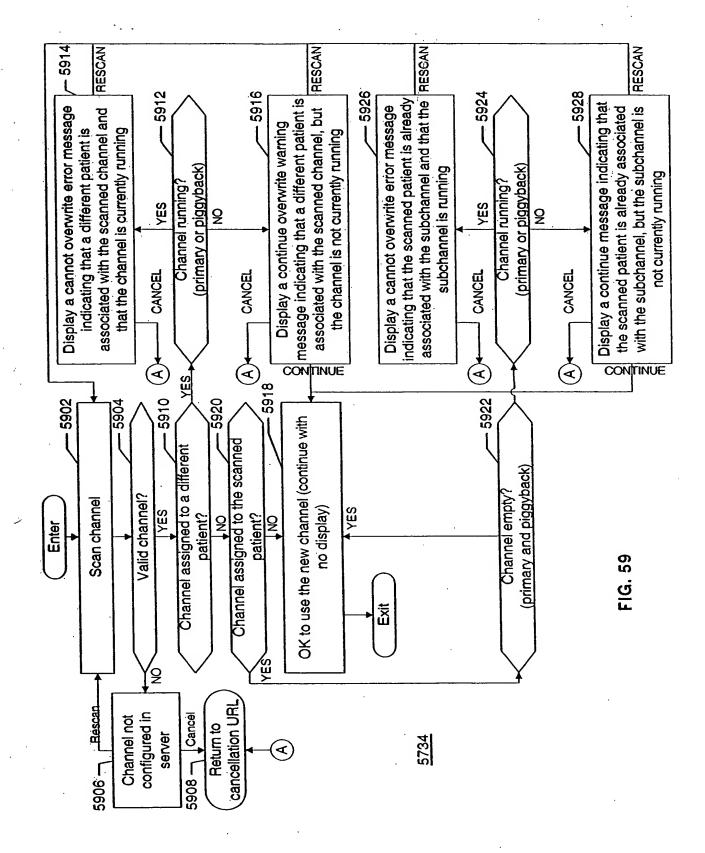
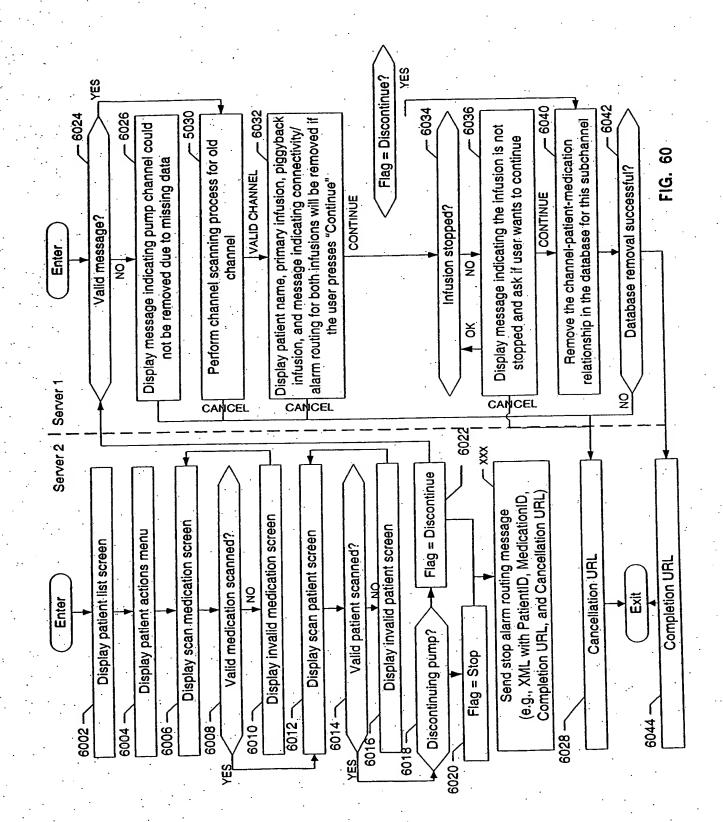
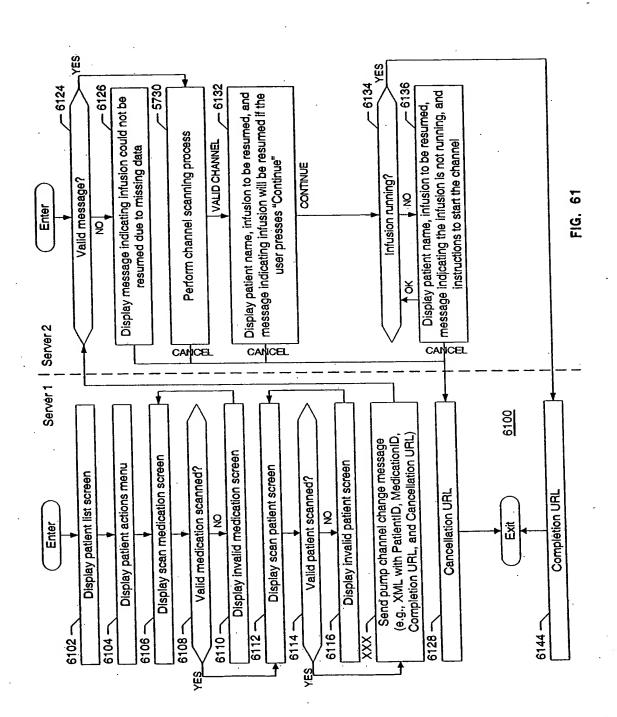
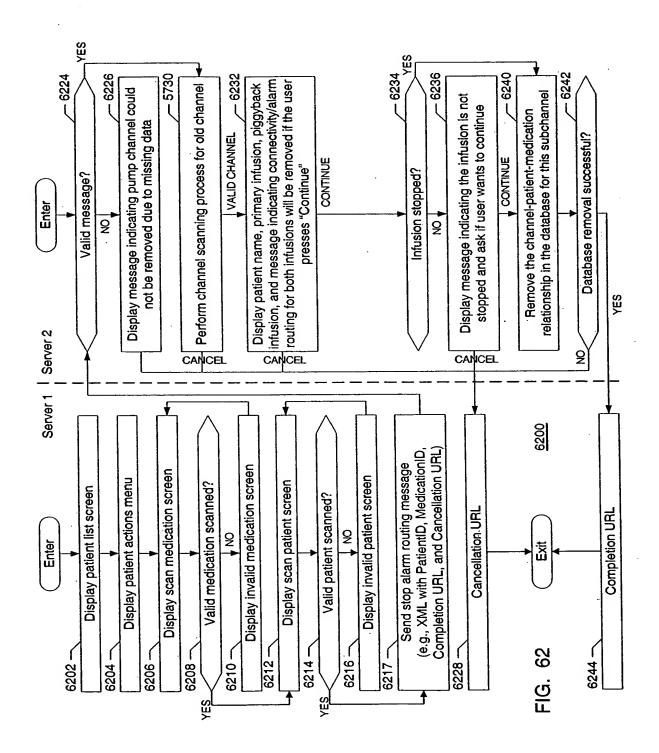


FIG. 58

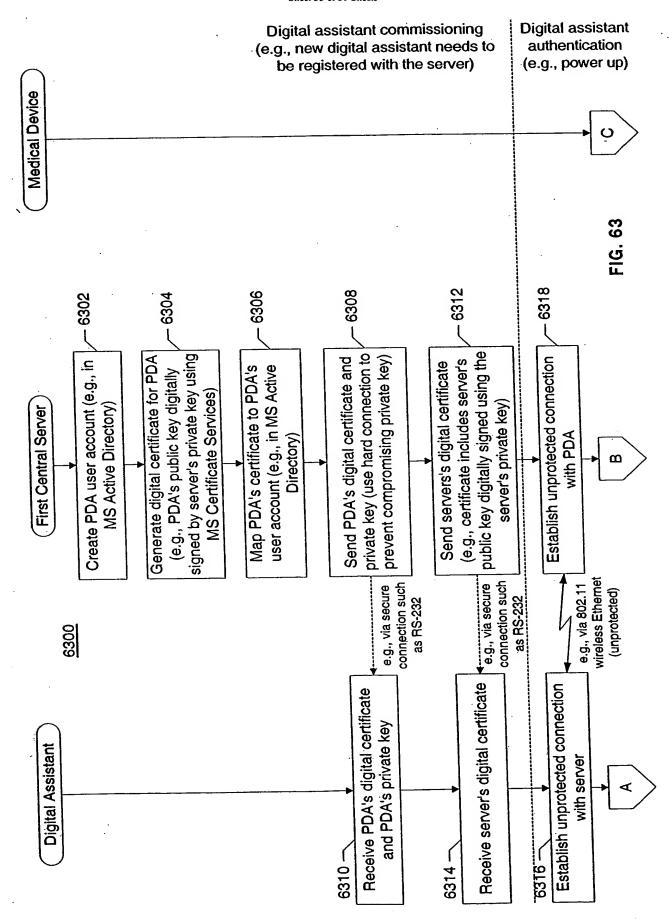






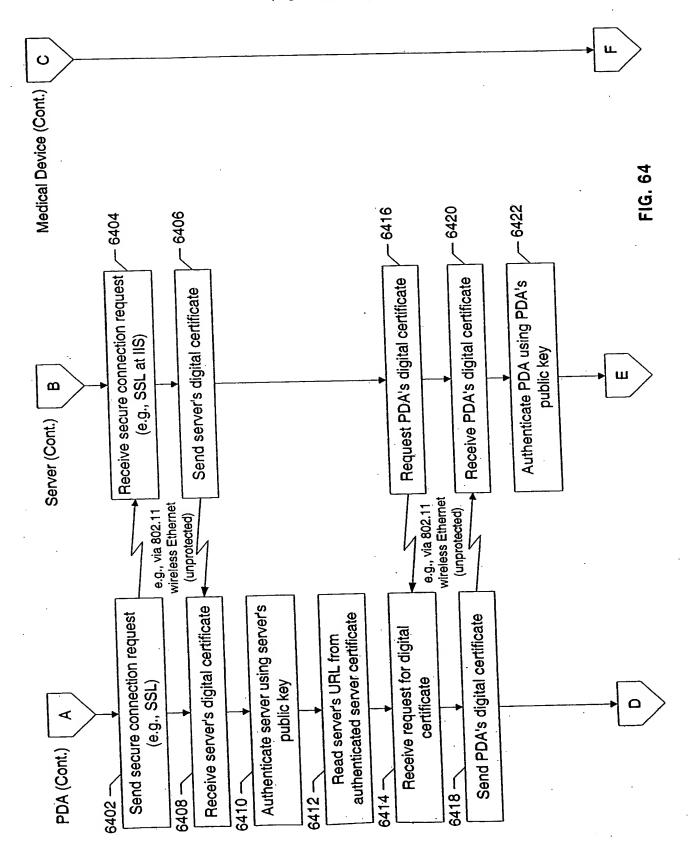


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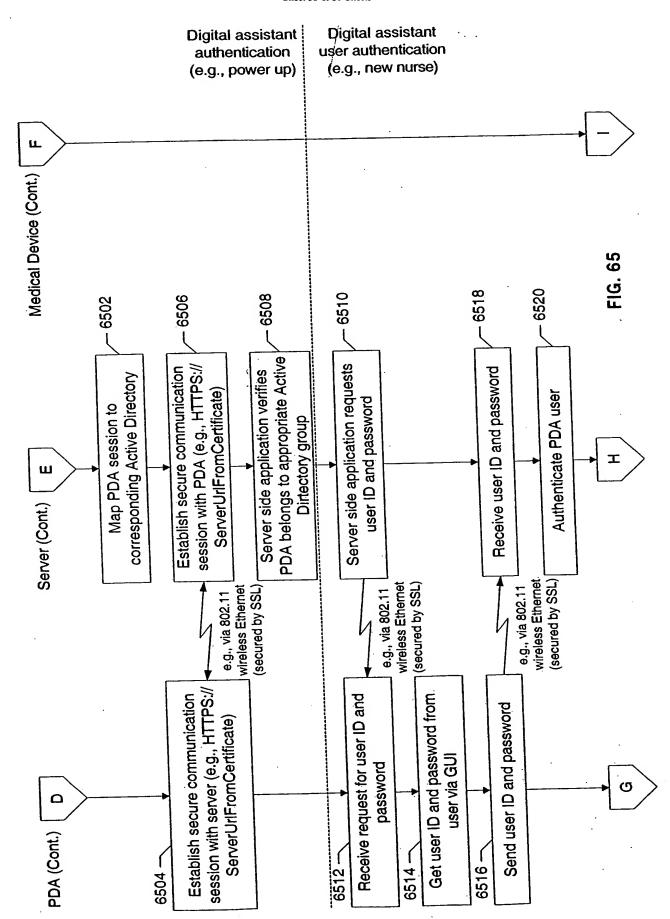


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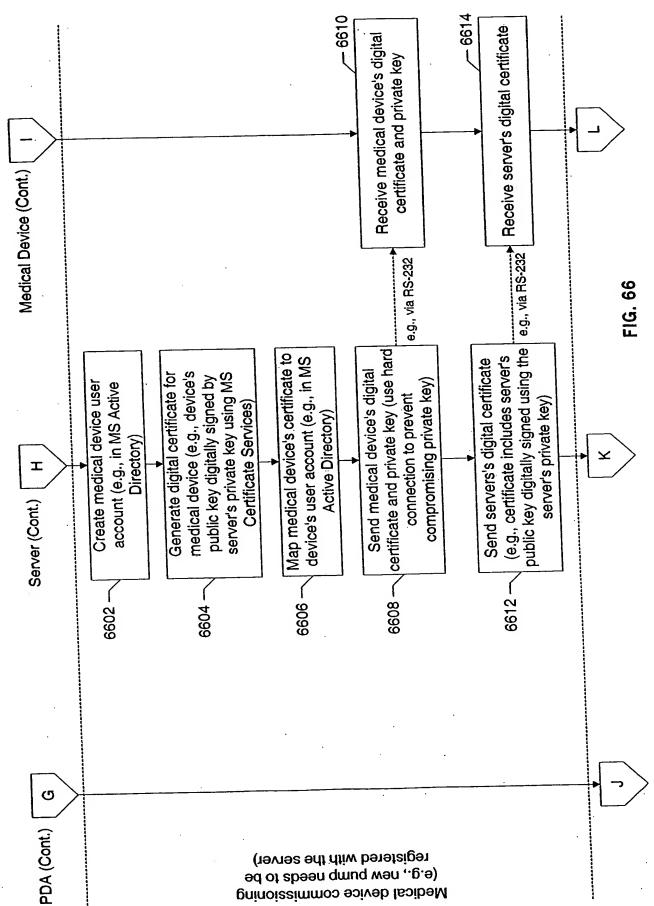
Digital assistant authentication (e.g., power up)



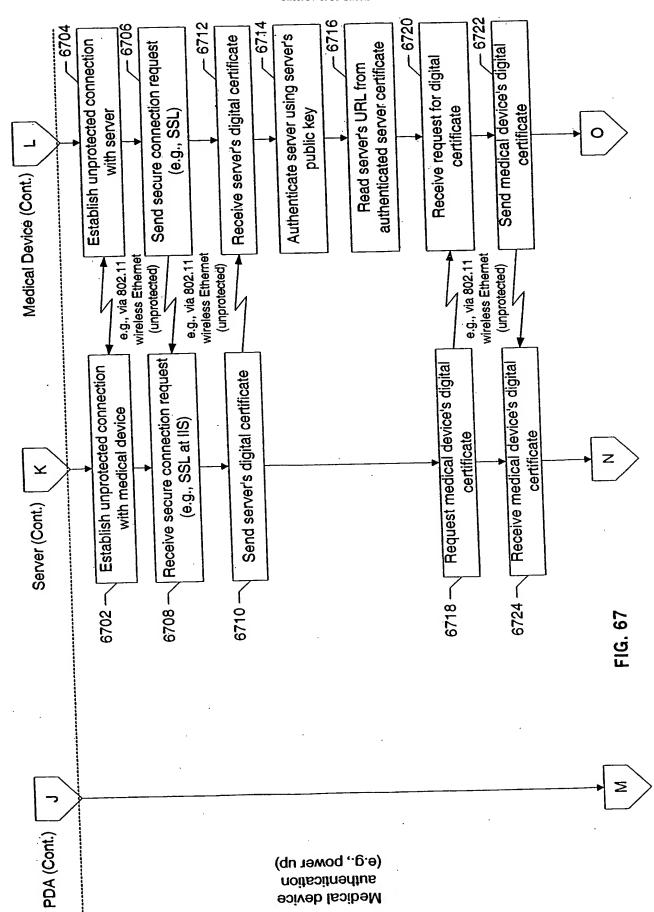
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